NC/QC/W-13/2018-19/UL-C1 **Date: 19-01-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Of UGD Lines In Mallasandra Ward 13 in Shettyhalli Sub Division.}
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : BIRLA
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**285 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.02 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.61 N/ Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/W-13/2018-19/UL-FA1 **Date: 19-01-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements Of UGD Lines In Mallasandra Ward 13 in Shettyhalli Sub Division.}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.60**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**86.05**	60-95	75-100	85-100	
01.18	**68.35**	30-70	55-90	75-100	
600. mic	**40.10**	15.34	35-59	60-79	
300.mic	**13.65**	5-20	8-30	12-40	
150.mic	**7.20**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.43 %**	-----
2	Silt Content	----	**0.52 %**	Not more than 8%
3	Specific Gravity	----	**2.60**	-------

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NC/QC/W-13/2018-19/UL-CA1 **Date: 19-01-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements Of UGD Lines In Mallasandra Ward 13 in Shettyhalli Sub Division.}
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	98.30	85-100	90 - 100
10 mm	46.05	0 - 20	25 - 55
4.75 mm	3.55	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	20.10 %	Not to exceed 25 %
2	Crushing value	26.95 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾಜಾಜಿನಗರ, ಬೆಂಗಳೂರು

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NC/QC/W-13/2018-19/UL-B1 **Date: 19-01-2019**

1. TEST REPORT ON BRICKS:

Sub: Testing of Bricks.

{Project*: Improvements Of UGD Lines In Mallasandra Ward 13 in Shettyhalli Sub Division.}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

I.WATER ABSORPTION TEST:

Sl No	Brand Name	Water absorption %	Average value %	Normal Values
1	Sample-I	9.38	**9.14 %**	As per IS:1077-1992 water absorption shall not be more than 20.00%
2	Sample-II	9.14		
3	Sample-III	9.04		
4	Sample-IV	9.15		
5	Sample-V	9.01		

II. COMPRESSIVE STRENGTH :

Sl No	Brand Name	Compressive Strength N/Sq.mm	Average value N/Sq.mm	Normal Values
1	Sample-I	5.60	**5.90**	---------
2	Sample-II	6.15		
3	Sample-III	6.00		
4	Sample-IV	5.90		
5	Sample-V	5.85		

III. EFFLORSCENCE:

Sl No	Brand	Efflorescence	Explanation as per IS: 3495:1992(Part-II)
1	Sample-I	Nil	Not more than 10 % of the exposed area of the brick is covered with a thin deposit of salts.
2	Sample-II	Nil	
3	Sample-III	Nil	
4	Sample-IV	Nil	
5	Sample-V	Nil	

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NC/QC/W-13/2018-19/UL-W1

Date: 21-01-2019

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements Of UGD Lines In Mallasandra Ward 13 in Shettyhalli Sub Division.}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	100.00	100
45.00	99.05	95-100
26.50	---	-
22.40	72.90	60-80
11.20	47.65	40-60
4.75	35.80	25-40
2.36	24.15	15-30
0.600	16.55	8-22
0.075	3.30	0-5

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ರಮೇಶ್ವರನಗರ, ಬೆಂಗಳೂರು

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Date: 21-01-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**28.36 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**22.97 %**	Not more than 35.0 %
3.	Water absorption, %	**0.40 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಲೆಫ್ಟಿಪಬ್ಲಿ ಉಪವಿಭಾಗ, ದಾಸನಪುರ, ಬೆಂಗಳೂರು
ಜಿ. ಪಂ. ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮಿಷ್ಟ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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NC/QC/W-13/2018-19/UL-C2

Date: 23-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements Of UGD Lines In Mallasandra Ward 13 in Shettyhalli Sub Division.}
Ref.: Material testing/W-13/QC/18-19,
Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : BIRLA
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	168 min	Shall not be less than 30 min
2	Final setting time	274 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.16 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.27 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	28.38 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/W-13/2018-19/UL-PCC1

Date: 23-01-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements Of UGD Lines In Mallasandra Ward 13 in Shettyhalli Sub Division.}

Ref.: Material testing/W-13/QC/18-19,

Report Required for: Assistant Executive Engineer,
Shettyhalli Sub division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	59.35	0 -20	30- 70
10mm	33.10	0 -5	10- 35
4.75mm	2.80	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	98.60	60-95	75-100	85-100	
01.18	76.15	30-70	55-90	75-100	
600 mic	53.95	15-34	35-59	60-79	
300 mic	27.40	5-20	8-30	12-40	
150 mic	6.75	0-10	0-10	0-10	

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